

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/041212 A2

(51) International Patent Classification⁷: **A61K**

(21) International Application Number:
PCT/US2003/035231

(22) International Filing Date:
3 November 2003 (03.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/422,967 1 November 2002 (01.11.2002) US

(71) Applicants and

(72) Inventors: **SACKTOR, Todd, Charlton** [US/US]; 7 Park Hill Place, Yonkers, NY 10705-1617 (US). **CRARY, John, Fonda** [US/US]; 75 West Street, Apt. 7H, New York, NY 10008 (US). **HERNANDEZ, Alejandro, Ivan** [US/US]; 3142 42nd Street, Apt. 3F, Queens, NY 11103 (US). **MIRRA, Suzanne** [US/US]; 111 Hicks Street, Brooklyn, NY 11201 (US). **SHAO, Charles** [US/US]; 70-11 Groton Street, Forest Hills, NY 11375 (US).

(74) Agent: **GROLZ, Edward, W.**; Scully, Scott, Murphy & Presser, 400 Garden City Plaza, Garden City, NY 11530 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ATYPICAL PROTEIN KINASE C ISOFORMS IN DISORDERS OF THE NERVOUS SYSTEM AND CANCER

(57) Abstract: The present invention establishes a link between altered aPKC function and nervous system disorders and cancers, such as Alzheimer's disease (AD) and neuroblastoma. Methods of using aPKC in diagnosis, drug screening and gene therapy in nervous system disorders and cancers are provided.

WO 2004/041212 A2